

## ADAPTIVE PREFETCH OF I/O DATA BLOCKS

### Abstract of the Disclosure

5 In an example embodiment, an adaptive method of prefetching data  
blocks from an input/output device comprises predicting the address of each  
read operation reading a data block from the input/output device, the  
prediction based on the address of the immediately preceding read operation  
from the input/output device; tracking, for each read operation, whether each  
read operation reads a block data from the same address of the input/output  
10 device predicted for the read operation; and prefetching a data block for a  
read operation from the input/output device in accordance with the state of a  
state machine, the state of the state machine depending upon whether  
immediately preceding read operations read a data block from the same  
address of the input/output device predicted for the read operations.

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